Application Note: D-001-AN-05-002   **Revision:** 1.1
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Application Note D-001-AN-05-002

Subject
Protocol binary update to version 2.05

Introduction
Depending on the mode of operation, the firmware running on an AS8202NF has to make sure that the receiver does not continue to receive data from the communication bus channel but to get reset so that a new reception can be triggered. This document describes the update of the firmware to cope with these constraints.

Description
Differences between controller firmware 2.04 to version 2.05:

- The controller firmware 2.05 implements the FIFO reset timing constraints as analyzed in D-CHIP-AN-10-001 v. 1.0

The protocol 2.05 is compatible with SAE AS6003

The TTP/C protocol binary version 2.05 can be obtained from the chip vendor (austriamicrosystems) and must be downloaded into the instruction memory of the controller before starting the controller. The updated datasheet from Austria Microsystems of the AS8202NF has the version 2.2 from October 2012.

The algorithm how to use a RAM protocol with the C2NF model is described in the document
TTP/C Controller Model C2NF Controller-Host Interface Description Firmware 2.04
Document edition 1.0.1-14258 of 15-Jan-2008
Document number D-001-G-10-004

Example code (ANSI C) is given in the appendix of this document. The protocol update is delivered as a package to be included into an ANSI C application.

APPLICATION ANALYSIS

If an updated binary is not used an analysis of the application behavior can be performed to handle potential safety issues. Please contact TTTech to support you in this analysis. An update to version 2.05 is recommended.

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